

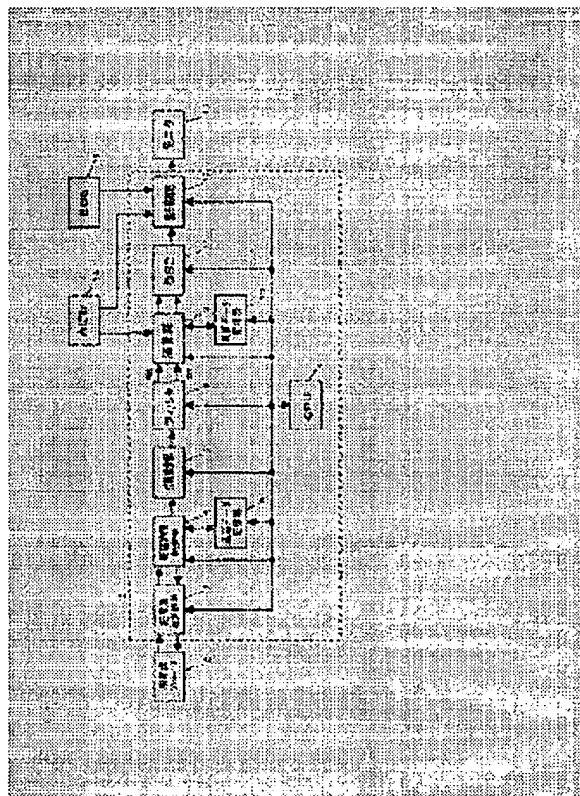
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**<P>PROBLEM TO BE SOLVED: To provide an ultrasonic diagnostic apparatus capable of diagnosing the characteristics of In vivo tissues.**

**<P>SOLUTION: The apparatus has an operation part for calculating the speed of kinetic motion of an object of measurement at a plurality of positions of the object based on the phase-detected signal, a first expansion quantity and/or first elasticity in each unit cell with a first area when the object of measurement is divided into the unit cells, and a second expansion quantity and/or second elasticity in each unit cell with a second area larger than the first area when the object of measurement is divided, based on the speed of kinetic motion. The second expansion quantity and/or second elasticity is used in image displaying the expansion quantity and/or elasticity of the object of measurement. On the other hand, the first expansion quantity and/or first elasticity is used in image displaying the expansion quantity and/or elasticity of the object after the measured data are collected.**

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